

### NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

The drawing(s) filed (insert date) 4/18/03 are:

- A. 2 approved by the Draftsperson under 37 CFR 1.84 or 1.152.  
B.     objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. Corrected drawings are required.

**1. DRAWINGS.** 37 CFR 1.84(a): Acceptable categories of drawings: Black ink or Color (3 sets required).

    Color drawings are not acceptable until petition is granted. Fig(s)    

    Pencil and non black ink not permitted. Fig(s)    

**2. PHOTOGRAPHS.** 37 CFR 1.84(b)

    1 full-tone set is required. Fig(s)    

    Photographs may not be mounted. 37 CFR 1.84(e)

    Photographs must meet paper size requirements of 37 CFR 1.84(f). Fig(s)    

    Poor quality (half-tone). Fig(s)    

**3. TYPE OF PAPER.** 37 CFR 1.84(e)

    Paper not flexible, strong, white, and durable.

Fig(s)    

    Erasures, alterations, overwritings, interlineations, folds, copy machine marks not accepted.

Fig(s)    

**4. SIZE OF PAPER.** 37 CFR 1.84(f): Acceptable sizes:

21.0 cm by 29.7 cm (DIN size A4) or

21.6cm by 27.9cm (8 1/2x 11 inches)

    All drawing sheets not the same size.

Sheet(s)    

    Drawings sheets not an acceptable size. Fig(s)    

**5. MARGINS.** 37 CFR 1.84(g): Acceptable margins:

Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm

    Margins not acceptable. Fig(s)    

    Top (T)     Left (L)

    Right (R)     Bottom (B)

**6. VIEWS.** 37 CFR 1.84(h)

REMINDER: Specification may require revision to correspond to drawing changes, e.g., if Fig. 1 is changed to Fig. 1A, Fig 1B and Fig. 1C, etc., the specification, at the Brief Description of the Drawings, must likewise be changed.

    Views not labeled separately or properly.

Fig(s)    

**7. SECTIONAL VIEWS.** 37 CFR 1.84(h)(3)

    Sectional designation should be noted with Arabic or Roman numbers. Fig(s)    

**8. ARRANGEMENT OF VIEWS.** 37 CFR 1.84(i)

    Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s)    

**9. SCALE.** 37 CFR 1.84(k)

    Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction.

Fig(s)    

**10. CHARACTER OF LINES, NUMBERS, & LETTERS.** 37 CFR 1.84(l)

    Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality). Fig(s)    

**11. SHADING.** 37 CFR 1.84(m)

    Solid black areas pale. Fig(s)    

    Solid black shading not permitted. Fig(s)    

**12. NUMBERS, LETTERS, & REFERENCE CHARACTERS.** 37 CFR 1.84(p)

    Numbers and reference characters not plain and legible. Fig(s)    

    Figure legends are poor. Fig(s)    

    Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1) Fig(s)    

    English alphabet not used. 37 CFR 1.84(p)(2) Fig(s)    

    Numbers, letters and reference characters must be at least 32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3). Fig(s)    

**13. LEAD LINES.** 37 CFR 1.84(q)

    Lead lines missing. Fig(s)    

**14. NUMBERING OF SHEETS OF DRAWINGS.** 37 CFR 1.84(t)

    Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s)    

**15. NUMBERING OF VIEWS.** 37 CFR 1.84(u)

    Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s)    

**16. DESIGN DRAWINGS.** 37 CFR 1.152

    Surface shading shown not appropriate.

Fig(s)    

    Solid black surface shading is not permitted except when used to represent the color black as well as color contrast. Fig(s)    

COMMENTS:

Reviewer D. D.

If you have questions, call (703) 305-8404.

Date 9/25/03

Attachment to Paper No. 20

00/386989

NOTICE OF DRAFTSPERSON'S  
PATENT DRAWING REVIEWThe drawing(s) filed (insert date) 8/31/99 are:A. ☒ approved by the Draftsperson under 37 CFR 1.84 or 1.152.B. ☒ objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawing must be submitted according to the instructions on the back of this notice.1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings:  
Black ink. Color.☐ Color drawings are not acceptable until petition is granted.

Fig(s) \_\_\_\_\_

☐ Pencil and non black ink not permitted. Fig(s) \_\_\_\_\_

## 2. PHOTOGRAPHS. 37 CFR 1.84(b)

☐ 1 full-tone set is required. Fig(s) \_\_\_\_\_☐ Photographs may not be mounted. 37 CFR 1.84(c)☐ Poor quality (half-tone). Fig(s) \_\_\_\_\_

## 3. TYPE OF PAPER. 37 CFR 1.84(c)

☐ Paper not flexible, strong, white, and durable.

Fig(s) \_\_\_\_\_

☐ Erasures, alterations, overwritings, interlineations,☐ folds, copy machine marks not accepted. Fig(s) \_\_\_\_\_☐ Mylar, velum paper is not acceptable (too thin).

Fig(s) \_\_\_\_\_

## 4. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes:

☐ 21.0 cm by 29.7 cm (DIN size A4)☐ 21.6 cm by 27.9 cm (8 1/2 x 11 inches)☐ All drawing sheets not the same size.

Sheet(s) \_\_\_\_\_

☐ Drawings sheets not an acceptable size. Fig(s) \_\_\_\_\_

## 5. MARGINS. 37 CFR 1.84(g): Acceptable margins:

Top 2.5 cm Left 2.5cm Right 1.5 cm Bottom 1.0 cm

SIZE: A4 Size

Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm

SIZE: 8 1/2 x 11

Margins not acceptable. Fig(s) \_\_\_\_\_

☒ Top (T) ☒ Left (L)☒ Right (R) ☒ Bottom (B)

## 6. VIEWS. 37 CFR 1.84(h)

REMINDER: Specification may require revision to correspond to drawing changes.

Partial views. 37 CFR 1.84(h)(2)

☐ Brackets needed to show figure as one entity.

Fig(s) \_\_\_\_\_

☐ Views not labeled separately or properly.

Fig(s) \_\_\_\_\_

☐ Enlarged view not labeled separately or properly.

Fig(s) \_\_\_\_\_

## 7. SECTIONAL VIEWS. 37 CFR 1.84 (h)(3)

☐ Hatching not indicated for sectional portions of an object.

Fig(s) \_\_\_\_\_

☐ Sectional designation should be noted with Arabic or

Roman numbers. Fig(s) \_\_\_\_\_

## 8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)

☐ Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) \_\_\_\_\_

## 9. SCALE. 37 CFR 1.84(k)

☐ Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction.

Fig(s) \_\_\_\_\_

## 10. CHARACTER OF LINES, NUMBERS, &amp; LETTERS.

37 CFR 1.84(i)

☒ Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality).Fig(s) 5

## 11. SHADING. 37 CFR 1.84(m)

☐ Solid black areas pale. Fig(s) \_\_\_\_\_☐ Solid black shading not permitted. Fig(s) \_\_\_\_\_☐ Shade lines, pale, rough and blurred. Fig(s) \_\_\_\_\_

## 12. NUMBERS, LETTERS, &amp; REFERENCE CHARACTERS.

37 CFR 1.84(p)

☐ Numbers and reference characters not plain and legible.

Fig(s) \_\_\_\_\_

☐ Figure legends are poor. Fig(s) \_\_\_\_\_☐ Numbers and reference characters not oriented in the

same direction as the view. 37 CFR 1.84(p)(1)

Fig(s) \_\_\_\_\_

☐ English alphabet not used: 37 CFR 1.84(p)(2)

Figs \_\_\_\_\_

☐ Numbers, letters and reference characters must be at least

.32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3)

Fig(s) 4, 7, 53, 57, 78-83, 101-104

## 13. LEAD LINES. 37 CFR 1.84(q)

☐ Lead lines cross each other. Fig(s) 137, 153☐ Lead lines missing. Fig(s) 154, 168

## 14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(t)

☐ Sheets not numbered consecutively, and in Arabic numeralsbeginning with number 1. Sheet(s) 169

## 15. NUMBERING OF VIEWS. 37 CFR 1.84(u)

☐ Views not numbered consecutively, and in Arabic numerals,

beginning with number 1. Fig(s) \_\_\_\_\_

## 16. CORRECTIONS. 37 CFR 1.84(w)

☐ Corrections not made from prior PTO-948

dated \_\_\_\_\_

## 17. DESIGN DRAWINGS. 37 CFR 1.152

☐ Surface shading shown not appropriate. Fig(s) \_\_\_\_\_☐ Solid black shading not used for color contrast.

Fig(s) \_\_\_\_\_

## COMMENTS

- Characters must be shown clearly in the shading areas.

Fig. 17-22, 25, 44, 66, 68-76, 85-89, 91, 92, 96-99,

106-107, 110-115, 117-119, 125-127, 132, 154, 153,

156, 157, 176, 180, 181, 186, 187, 189, 190,

REVIEWER

DATE

TELEPHONE NO.

ATTACHMENT TO PAPER NO.